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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A lock (1, 1') for a door of a motor vehicle comprising:

a closing mechanism (3) designed for coupling, in a releasable way, with a lock striker (2) for bringing about closing of [[said]] the door;

a mechanical actuating assembly (4) of said closing mechanism (3), which emprises including opening means (30, 38, 55, 57), for controlling release of said closing mechanism (3) from said lock striker (2), and means for inhibiting opening (41, 58), in turn including a first safety member (41) and a second safety member (58), that can be selectively activated for rendering said opening means (30, 38, 55, 57) ineffective, respectively, from outside and from inside the motor vehicle; and

electrical actuator means (5) eomprising including a first output member (71) coupled with said first safety member [[(41);]] (41), said electric-actuator means (5) being housed in a fluid-tight way in a single casing (70) and said first output member (71) traversing, in a fluid-tight way, a through hole (73) of said casing (70) for co-operating with said first safety member (41); characterized in that (41), and said electric-actuator means (5) eomprise including a second output member (72) coupled with said second safety member (58), housed in a fluid-tight way in said casing (70) and traversing in a fluid-tight way a further through hole (74) of said casing [[(70);]] (70), and in that wherein said casing (70) defines an area (70a) for housing a manual control device (82, 156) of said first output member (71) and an additional electrical control device (155) of said second output member (72), which provides a function of child safety of said lock (1, 1').

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2. (Currently amended) The lock as claimed in claim 1, characterized in that wherein

said casing (70) comprises at least two elements (77, 78), which can be coupled together with

interposition of first sealing means (81).

3. (Currently amended) The lock as claimed in claim 2, characterized in that wherein

said first sealing means (81) comprise includes a gasket (81) co-moulded on a perimetral portion

(79) of one (77) of said elements (77, 78).

4. (Currently amended) The lock as claimed in claim [[2 or]] 3, characterized in that

wherein said holes (73, 74) are made entirely on one (77) of said elements (77, 78) and house

respective seal rings (103) co-operating with said output members (71, 72).

5. (Currently amended) The lock as claimed in any-one of the foregoing claims

claim 4, characterized in that wherein each of said first and second safety member members (41,

58) interacts with said opening means (30, 38, 55, 57) and is displaceable along a pre-set

direction between a disabling configuration, in which it renders said opening means (30, 38, 55,

57) ineffective and an enabling configuration, in which it enables actuation of said closing

mechanism (3) by said opening means (30, 38, 55, 57), and in that each of said first and second

output member members (71, 72) is provided with a rotational motion about an axis (E, F) of its

own, which is transverse to the direction of displacement of [[the]] said first and second safety

member members (41, 58) and is provided, in a position corresponding to an external end (110,

111) of its own projecting from said casing (70), with a portion (75, 76) for interaction with the

relative said safety member (41, 58), said interaction portion (75, 76) being eccentric with

respect to said axis (E, F).

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6. (Currently amended) The lock as claimed in claim 5, eharacterized in that wherein

said interaction portion (75, 76) is fixed to an end element (114, 115) coupled in an axially fixed

position and in an axially mobile way on said external end (110, 111) of the relative said output

member (71, 72) and is kept in a pre-set angular position on the external end (110, 111) by

[[said]] elastic means (116, 117).

7. (Currently amended) The lock as claimed in claim [[5 or]] 6, eharacterized in that

wherein said interaction portion is a pin (75, 76) engaged with a through hole (53, 67) of the

relative said safety member (41, 58).

8. (Currently amended) The lock as claimed in any one of the foregoing claims

claim 7, characterized-in-that wherein said opening means comprise includes a first actuating

mechanism (31) and a second actuating mechanism (32), which can be connected, respectively,

to an external handle and an internal handle of said door for controlling release of said closing

mechanism (3) from said lock striker (2) respectively from outside and from inside the motor

vehicle, said first and second safety member (41, 58) being respectively available in a

corresponding said disabling configuration for rendering the respective said first actuating

mechanism (31) and said second actuating mechanism (32) ineffective, providing, respectively,

an external-safety function and an internal-safety function.

9. (Currently amended) The lock as claimed in any one of the foregoing claims

claim 8, characterized in that wherein said first and second output members (71, 72) have

parallel axes (E, F) and are actuated by respective electrical control devices (87, 88).

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10. (Currently amended) The lock as claimed in any one of the foregoing claims

<u>claim 9</u>, eharacterized in that <u>wherein</u> said casing area (70a) of said casing (70) is set on one

opposite side of said second output member (72) with respect to said first output member (71),

and in that said second output member (72) carries a first attachment element (167), which can

be connected to said additional electric-control device (155), and a second attachment element

(133) which can be connected to said manual-control device (82, 156), said first attachment

element (167) being angularly mobile with respect to said second output member (72) and said

second attachment element (133) being angularly mobile with respect to said second output

member (72) and angularly coupled with said first output member (71).

11. (Currently amended) The lock as claimed in any one of the foregoing claims

claim 10, characterized in that wherein said casing (70) integrally defines an insulating body

(149) of an electrical connector (148) for connection of said electrical actuator means (5) with an

electrical wiring system of the motor vehicle.

12. (Currently amended) The lock as claimed in claim [[12]] 11, eharacterized in that

wherein said casing (70) houses a plurality of warning elements (143, 144, 145, 146, 173) for

signalling the operating condition of components of said first lock (1, 1'), and an electrical

circuit (147) for connection of said electric-actuator means (5) and said warning elements (143,

144, 145, 146, 173) with said electrical connector (148).

13. (Currently amended) The lock as claimed in claim 12, characterized in that

wherein said warning elements comprise a plurality of microswitches (143, 144, 145, 146, 173),

each of which has an insulating portion (154) fixed to said casing (70) and electrical-connection

means (150) for connection to said electrical circuit (147) projecting from said insulating portion

(154) and embedded in a resin.

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14. (Currently amended) The lock as claimed in claim [[12 or]] 13, eharacterized in that wherein said electrical circuit (147) comprises a plurality of conductive paths (152) carried by a flexible support made of insulating material (153) fixed to said casing (70).